

**COUNTY OF SAN LUIS OBISPO BOARD OF SUPERVISORS
AGENDA ITEM TRANSMITTAL**

(1) DEPARTMENT Planning and Building	(2) MEETING DATE 3/22/2016	(3) CONTACT/PHONE Jon Griesser, Supervising Planner / (805) 781-5611	
(4) SUBJECT Request to receive and file the EnergyWise Plan 2016 Update. All Districts.			
(5) RECOMMENDED ACTION It is recommended that the Board receive and file the EnergyWise Plan 2016 Update.			
(6) FUNDING SOURCE(S) N/A	(7) CURRENT YEAR FINANCIAL IMPACT \$0.00	(8) ANNUAL FINANCIAL IMPACT \$0.00	(9) BUDGETED? N/A
(10) AGENDA PLACEMENT { } Consent { } Presentation { } Hearing (Time Est. ____) {X} Board Business (Time Est. <u>30 min</u>)			
(11) EXECUTED DOCUMENTS { } Resolutions { } Contracts { } Ordinances {X} N/A			
(12) OUTLINE AGREEMENT REQUISITION NUMBER (OAR) N/A		(13) BUDGET ADJUSTMENT REQUIRED? BAR ID Number: { } 4/5 Vote Required {X} N/A	
(14) LOCATION MAP N/A	(15) BUSINESS IMPACT STATEMENT? No	(16) AGENDA ITEM HISTORY { } N/A Date: <u>8/28/12</u>	
(17) ADMINISTRATIVE OFFICE REVIEW Lisa Howe			
(18) SUPERVISOR DISTRICT(S) All Districts			

County of San Luis Obispo



TO: Board of Supervisors

FROM: Planning and Building / Jon Griesser, Supervising Planner

VIA: Trevor Keith, Deputy Director, Policies and Programs

DATE: 3/22/2016

SUBJECT: Request to receive and file the EnergyWise Plan 2016 Update. All Districts.

RECOMMENDATION

It is recommended that the Board receive and file the EnergyWise Plan 2016 Update.

DISCUSSION

Background

The EnergyWise Plan (EWP) was adopted by the County of San Luis Obispo Board of Supervisors in November 2011 in order to implement the goals established by the Conservation & Open Space Element (COSE) of the County's General Plan. These goals include reducing energy use from County government operations by 20 percent from baseline levels (2006) by the year 2020 and reducing greenhouse gas (GHG) emissions from government and community operations by 15 percent. The EWP represents the County's contribution to the State's efforts to reduce GHG emissions as outlined in Assembly Bill 32, which calls for State agencies to reduce emissions to 1990 levels by 2020, and 40 percent below 1990 levels by 2030, respectively. The EWP identifies how the County, across multiple County departments, will achieve its energy use and GHG emissions reduction goals, in addition to water conservation and air quality goals.

EnergyWise Plan 2016 Update

The EWP 2016 Update (Attachment 1) summarizes the progress toward implementing measures in the EWP from multiple County departments and outlines the overall trends in energy use and emissions since the baseline year of the EWP inventory. Information regarding specific measures is included through 2015 and beyond as available. Emissions data is included through 2013, the most recent year for which complete and verified data from both PG&E and SoCal Gas have been received.

The EWP 2016 Update follows the structure of the EWP itself, which identifies one overarching goal – to reduce greenhouse gas emissions from community-wide and County government operations sources by a minimum of 15 percent from 2006 baseline emissions by 2020. Implementation of this overarching goal is assigned to 12 specific reduction goals, six for government operations and six for community-wide activity which are listed below.

Government Operations

As detailed in the attached EWP 2016 Update, the Planning and Building Department, Public Works Department, and several other departments have successfully implemented numerous measures to reduce GHG emissions from County-owned facilities and operations.¹ The EWP 2016 Update highlights what has happened and what is in process under each of the goals below.

Goal 1: Reduce energy use in existing County facilities 20% by 2020.

Goal 2: Increase the use of renewable energy sources in County facilities to account for 10% of total energy used.

Goal 3: Reduce the amount of waste generated at County facilities and increase the County's waste diversion rate to 80% by 2020.

Goal 4: Reduce water use in County facilities 20% by 2020.

Goal 5: Reduce emissions from the County's vehicle fleet by using alternative fuels and decreasing vehicle miles traveled.

Goal 6: Provide additional opportunities for employees to utilize alternative transportation options and reduce commute lengths.

Community-Wide

As detailed in the attached EWP 2016 Update, the Planning and Building Department, together with the public and various community partners, has been involved in implementing a variety of measures to reduce community-wide GHG emissions. The EWP 2016 Update highlights what has happened and what is in process under each of the goals below

Goal 1: Address future energy needs through increased conservation and efficiency in all sectors.

Goal 2: Increase the production of renewable energy from small-scale and commercial-scale renewable energy installations to account for 10% of total local energy use by 2020.

Goal 3: Reduce methane emissions from disposed waste by achieving as close to zero waste as possible through increased diversion rates, methane capture and recovery, and other strategies.

Goal 4: Reduce emissions from potable water use by 20% from per capita baseline levels by 2020 by prioritizing water conservation before development of new water resources.

Goal 5: Reduce transportation emissions through improvements in vehicle fuel efficiency, expansion of non-auto modes of travel, and implementation of smart growth land use policies.

Goal 6: Reduce emissions in agricultural practices through water conservation, upgrade of equipment technology, and use of best management practices.

Emission Status

The EWP 2016 Update details the overall GHG emissions, from both government operations and community-wide sources, which have decreased by approximately seven percent between 2006 and 2013. This decrease is almost entirely due to a reduction in community-wide emissions, and specifically a reduction from transportation and mobile sources. These sources, which represent the most significant contribution to overall emissions decreased largely because of a decrease in vehicle miles traveled in the

¹ On October 20, 2015, the County Board of Supervisors approved the transition of many functions to Public Works previously held by General Services. These include nearly all responsibilities related to the implementation, monitoring, and reporting of the progress toward implementing measures in the EWP.

county and an increase in U.S. Corporate Average Fuel Economy standards. It is important to note that community-wide transportation emissions data included in this update are derived from models from State agencies that include all vehicle miles traveled in and through the unincorporated county (not just those that have an origin or destination within unincorporated areas), and therefore significantly overstate the contribution of transportation emissions relative to other emission sources. Total GHG emissions from County government activities have increased by less than one percent. From 2006 to 2013, per capita GHG emissions from community-wide sources decreased by over ten percent while per capita GHG emissions from County operations increased by over six percent. Emissions from buildings and facilities increased due to growth in the County operations specifically, the Nacimiento Pipeline Project.

Potential EWP Measure Implementation

Several larger measures in the EWP have the potential to contribute substantially towards our reduction target. Of these measures some are already in progress, while others will first require further analysis and funding. Other measures will not directly reduce emissions, but will provide both a greater understanding of our emissions status, and an updated roadmap for implementing actionable and cost effective GHG reduction measures. These include, but are not limited to the following:

- Complete unfunded pre-engineered energy efficiency measures that were initially included in the Sustainable Solutions Turnkey (SST) project.
- Install solar energy systems on County-owned facilities and land, taking advantage of PG&E's RES-BCT program, Net Energy Metering, and the Federal Investment Tax Credit (recently extended until the end of 2021).
- Continue moving forward with Property Assessed Clean Energy (PACE)
- Continue to explore a regional Community Choice Aggregation (CCA) program.
- Create an energy revolving loan fund that is filled and replenished by capturing project savings and/or incentives and used exclusively for future energy-related projects.
- Conduct protocol compliant emissions inventories to determine progress toward our goals.
- Update the EnergyWise Plan and continue to identify and evaluate new opportunities to reduce GHG emissions.
- Collect and report EWP data bi-annually, particularly related to progress towards implementing measures.

OTHER AGENCY INVOLVEMENT/IMPACT

The County Administrative Office, Public Works Department, and Planning and Building Department have reviewed and commented on the EWP 2016 Update.

FINANCIAL CONSIDERATIONS

While no financial considerations are associated with this informational report, required updates to the County's GHG inventory and EWP, and implementation of measures including energy efficiency and renewable energy projects, will necessitate additional analysis and will be brought to your Board for consideration.

RESULTS

This report provides the Board and public with information about the County's efforts and progress toward implementing measures in the EWP and achieving its GHG reduction goal. This report also identifies new initiatives for the County to explore to support realization of energy and emissions reduction goals. This initiative will contribute to the County's commitment towards energy efficiency and conservation goals,

and contribute to a healthy, livable, and well-governed community.

ATTACHMENTS

1. Attachment 1 - EnergyWise Plan 2016 Update